

## Patent Abstracts of Japan

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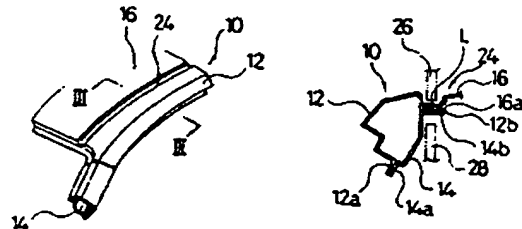
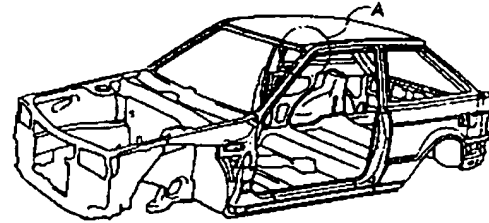
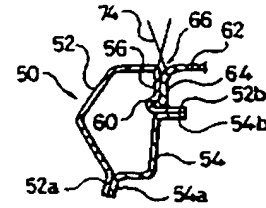
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 APPLICATION NUMBER : 01013489

APPLICANT : MAZDA MOTOR CORP;

INVENTOR : FUKAHORI MITSUGI;

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TITLE : BUTT WELDING OF PLATES



ABSTRACT : PURPOSE: To firmly join both plates in a state in the almost same plane by performing laser beam welding on bend parts of both plates by a laser beam and hardening thermosetting adhesives by heat of the laser beam.

CONSTITUTION: A bend part 64 of a roof panel 62 is abutted on a bent part 56 of a side frame outer panel 52 so that a joining part 66 between the roof panel 62 and the side frame outer panel 52 is in the almost same plane with respect to the roof panel 62 and the side frame outer panel 52. Afterward, the joining part 66 between the roof panel 62 and the side frame outer panel 52 is irradiated with the laser beam 74. The joining part 66 is then subjected to laser beam welding by the laser beam 74 and further, the thermosetting adhesives are hardened by heat of the laser beam 74. Accordingly, both plates are joined firmly in a state with the joining part 66 in the almost same plane with respect to the roof panel 62 and the side frame outer panel 52.

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